

We Claim:

1. A powder coating composition for providing a low gloss surface finish comprising (a) an unsaturated polyester resin containing, on a weight percent basis, from 2 to 10wt. % ethylenically unsaturated double bonds per molecule, (b) a glycidyl functional acrylic resin having a weight average molecular weight of from 5,000 to 200,000, (c) a crystalline or semi-crystalline polycarboxylic acid or polyanhydride having an acid number of from 50 to 400, (d) a free radical initiator and, optionally, (e) a catalyst selected from the group consisting of a photoinitiator and a redox catalyst.
2. The composition of claim 1 wherein the unsaturated polyester resin comprises at least one active hydrogen site per molecule.
3. The composition of claim 1 wherein the glycidyl functional resin is comprised of, as polymerized units, between 20 and 100 wt. % glycidyl acrylate or glycidyl methacrylate and between 0 and 80 wt. % other α,β -ethylenically unsaturated monomers.
4. The composition of claim 1 wherein the free-radical initiator is present in the powder coating composition in an amount of from 0.1 to 10 phr.
5. The composition of claim 1 wherein the amount of crystalline or semi-crystalline polycarboxylic acid or polyanhydride is present in the powder coating composition in an amount of from 5 to 40 phr.
6. An article coated by the powder coating composition of claim 1 comprising a heat sensitive substrate.
7. The article of claim 6 wherein the heat sensitive substrate is medium density fiberboard.
8. A coating on a substrate provided by the powder coating composition of claim 1.
9. A method of coating a heat sensitive substrate comprising applying the powder coating composition of claim 1 to the substrate surface and heating to form a continuous film.

10. The method of claim 9 wherein the coating composition on the heat sensitive substrate is first subjected to thermal energy and then to ultra-violet radiation.

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